

## Outputs and Interactions – Laboratory Office

### Publications

Semerjian, H.G. and Beary, E.S., ***“Metrology: Its Impact on the Economy, Quality of Life and International Trade,”*** Proc. Metrologia 2000, Sao Paulo, Brazil, December 2000.

Semerjian, H. G. and Beary, E.S., ***“Mutual Recognition of Measurements”***, IVD Technology,” Vol. 7, No. 4., May 2001.

Semerjian, H.G. and Beary, E.S (editor), ***“Workshop on Measurement Traceability,”*** Proc. of the Workshop on Measurement Traceability for Clinical Laboratory Testing and In Vitro Diagnostic Test Systems, NISTIR 6742, May 2001.

Semerjian, H. G. and Beary, E.S., ***“Impact of Metrology on the Economy and International Trade,”*** Proc. Metrology Society of Australia, Biennial Meeting, October 2, 2001.

Chemical Science and Technology Laboratory, Annual Report, 2000, NISTIR 6716, submitted to the Board on Assessment of NIST Programs, National Research Council.

### Talks

Beary, E.S., ***“Measurements and Standards to Support Sustainable Technologies,”*** 5<sup>th</sup> Annual Green Chemistry and Engineering Conference, Washington, DC, June 27, 2001. Invited

Koch, W. F., ***Chemical Science and Technology Laboratory,”*** Board on Chemical Science and Technology, National Research Council, Washington, DC, October 22, 2000. Invited

Koch, W.F., ***The Value and Influence of a Graduate Education in Chemistry at a Federal Research Laboratory,”*** Kent State University, Kent, OH, February 16, 2001. Invited

Koch, W.F., ***“Long-Term Planning in Chemistry at the National Institute of Standards and Technology,”*** Directors of Industrial Research – Analytical Group Winter Meeting, Gainesville, FL, February 22, 2001. Invited

Koch, W.F., ***“Chemical Science and Technology at the National Institute of Standards and Technology,”*** American Chemical Society Middle Atlantic Regional Meeting, Towson University, Towson, MD, May 30, 2001. Invited

Semerjian, H.G., ***“Chemical Science and Technology Laboratory Overview,”*** Board on Assessment Panel on CSTL, National Institute of Standards and Technology, February 20, 2001. Invited

Semerjian, H.G., ***“Chemical Science and Technology at NIST: Looking to the Future,” “Metrology: Its Impact on the Economy and Quality of Life,” “Setting the Standard -- NIST/NBS at 100 Years: NBS/NIST Centenary,”*** PITTCON 2001, New Orleans, LA, March 6-8, 2001. Invited

Semerjian, H.G., ***“Metrology: Its Impact on the Economy and Quality of Life,”*** International Seminar on Metrology – Trade and Society, Quito, Ecuador, June 26, 2001. Invited

Semerjian, H.G., ***“NIST 2010: NIST-wide Strategic Focus Areas,”*** August 2001.

Semerjian, H.G., ***“Impact of Metrology on the Economy and International Trade,” “CIPM MRA: Its Implications for Chemical Metrology,” “Chemical Metrology: Future Developments,”*** NCSL, August 1-2, 2001. Invited

Semerjian, H.G., ***“Analytical Chemistry at NIST over the past 40 years: from Meinke to May,”*** Fall ACS Meeting, Chicago, IL, August 28, 2001. Invited

Semerjian, H.G., ***“Briefing on NIST Counter-Terrorism and Critical Infrastructure Protection Activities,”*** September 20, 2001.

Semerjian, H.G., ***Impact of Metrology on the Economy and International Trade,”*** Metrology Society of Australia Biennial Meeting, October 2, 2001. Invited

Semerjian, H.G., ***“Role of Reference Materials in Measurement Traceability and Proficiency Testing,”*** National Association of Testing Authorities, Australia, October 1, 2001. Invited

## **Committee Assignments**

### **E. S. Beary**

NCCLS (National Committee for Clinical Laboratory Standards), Sub-Committee on Microwave Device Use in the Medical Laboratory  
NIST Advisor's Committee  
Sigma Xi Admissions Committee - elected chair for FY2001

### **W. F. Koch**

NCCLS (National Committee for Clinical Laboratory Standards)  
Immediate Past President  
Board of Directors/Executive Committee

Strategic Planning Committee, Chair  
Nominating Committee  
Global Programs Committee  
CCR (Council for Chemical Research)  
Board of Governors  
    Science Education and Human Resources Committee, Chair  
    DIR-AG (Directors of Industrial Research - Analytical Group)  
American Society for Testing and Materials (ASTM)  
    D19 Water  
    D19.02 General Specifications and Technical Resources  
    D 19.05 Inorganic Constituents in Water  
    D 22 Sampling and Analysis of Atmospheres  
    D 22.06 Acid Deposition  
    D 22.06.03 pH in Atmospheric Deposition, Chair  
International Organization for Standards (ISO): ISO Technical Committee (TC) 212,  
Clinical Laboratory Testing and InVitro Diagnostics  
National Academy of Clinical Biochemistry - Fellow

**H.G. Semerjian**

Comite International des Poids et Mesures (CIPM) (International Committee of Weights and Measures)  
    Comite Consultatif pour la Quantite de Matiere (CCQM) (Consultative Committee on Amount of Substance)  
Council for Chemical Research  
    Chair, Vision 2020 Chemical Measurements Task Force  
    Member, Renewal & Growth Advisory Committee (RAGS)  
Directors of Industrial Research - Analytical Group  
National Science and Technology Council  
    Committee on Environmental and Natural Resources, Joint Subcommittee on Environmental Technologies  
Center for Advanced Research in Biotechnology Board of Overseers  
Interamerica Metrology System (SIM)  
    Council Member  
    Professional Development Committee  
    SIM Representative to the JCRB  
Member, National Research Council, Chemical Sciences Roundtable (CSR)  
Member, National Academy of Engineering  
Member, National Research Council of Canada, Institute for National Measurement Standards Advisory Board (INMS)  
Member, Joint Committee of the Regional Metrology organizations and the BIPM (JCRB)

## **CSTL Colloquium Series**

### **November 8, 2000**

Brian Wilson, University of Toronto, Toronto, Canada, "Progress and Challenges in Optical Spectroscopy and Imaging for Clinical and Biomedical Applications."

### **December 7, 2000**

R. Mark Wightman, University of North Carolina, Chapel Hill, "Watching Neurotransmitters in Action with Voltammetry."

### **February 15, 2001**

William P. Flanagan, GE Corporate Research and Development, Niskayuna, NY, "Combinatorial Chemistry at GE: Looking back, Looking forward."

### **March 14, 2001**

Jane Lebkowski, Geron Corporation, Menlo Park, CA, "Expression of Telomerase Increases on the Lifespan of Somatic Cells Without Induction of Transformation: Applications in Regenerative Medicine."

### **May 8, 2001**

Linda B. McGown, Duke University, "On-the-fly Fluorescence Lifetime Detection for Multiplex DNA Analysis."

### **June 28, 2001**

Gordon McRae, Massachusetts Institute of Technology, "New Methods for Kinetic Parameter Estimation and Data Assimilation from Experiment."

## **Conferences/Workshops/Sessions Sponsored/Co-Sponsored**

### **November 2-3, 2000**

IVD Workshop, Measurement Traceability for Clinical Laboratory Testing and In Vitro Diagnostic Test Systems, National Institute of Standards and Technology, Gaithersburg, MD